

From: Kesler, Karen [Kesler.Karen@epa.gov]
Sent: 10/20/2020 2:59:03 PM
To: Fleisig, Erica [Fleisig.Erica@epa.gov]; Wilcut, Lars [Wilcut.Lars@epa.gov]
Subject: RE: Sengco, Mario shared "Notes for SHPD-R8 Monthly_10_21_20" with you.

Ex. 5 Deliberative Process (DP)

These are my notes from the meeting with had with ND in January:

- Working on their triennial revision
- Concerns about Se, impacts on small communities, and connection between water column and ovum numbers
- Looking to add selenium to the monitoring
- Happy with the science with the ovary concentration and its impact on aquatic life, have issues with the connection to the water column
 - Going to start collecting muscle data
 - Issues with new selenium concentration with just ovum, and no water column value
 - Doesn't think the linkage is good between the tissue and the water column, have lots of waters that are in violation with rainfall event, naturally occurring Se in its soils
 - How would you permit with only fish tissue
 - Sounds like they want to keep the current 5 and 20

Ex. 5 Deliberative Process (DP)

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U.S. Environmental Protection Agency
Washington, DC
202-564-4612

From: Fleisig, Erica <Fleisig.Erica@epa.gov>
Sent: Tuesday, October 20, 2020 10:52 AM
To: Kesler, Karen <Kesler.Karen@epa.gov>; Wilcut, Lars <Wilcut.Lars@epa.gov>
Subject: FW: Sengco, Mario shared "Notes for SHPD-R8 Monthly_10_21_20" with you.

Ex. 5 Deliberative Process (DP)

From: Wirick, Holiday <wirick.holiday@epa.gov>
Sent: Tuesday, October 20, 2020 10:47 AM
To: Fleisig, Erica <Fleisig.Erica@epa.gov>; Sengco, Mario <Sengco.Mario@epa.gov>
Subject: Re: Sengco, Mario shared "Notes for SHPD-R8 Monthly_10_21_20" with you.

Hi Erica, I hope you guys had a phenomenal vacation!!

Ex. 5 Deliberative Process (DP)

7782-49-2	Selenium in Fish ⁴ Flesh (a)	<u>Egg-Ovary: 15.1 mg/kg Dry Weight</u> <u>Whole Body: 8.5 mg/kg Dry Weight</u> <u>Muscle: 11.2 mg/kg Dry Weight</u>
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⁴ When fish egg/ovary concentrations are measured, the values supersede any whole-body, and muscle. Fish egg/ovary, whole body or muscle measurements supersede any water column element. Water column values in Table 2 are the applicable criterion in the absence of fish tissue measurements including waters where fish have been extirpated or where physical habitat and/or flow regime cannot sustain fish populations, or in waters with new discharges of selenium where steady state has not been achieved between water and fish tissue at the site.

Excerpt from Table 2 (WQS attached):

		Aquatic Life Value Classes I, IA, II, III		Human Health Value	
				Classes I, IA, II ²	Class III ³
7440-36-0	Antimony			5.6	640
7440-38-2	Arsenic ⁷	340 ⁹	150 ⁹	10 ⁷	
7440-41-7	Beryllium ⁴			4 ⁷	
7440-43-9	Cadmium	1.87.38 ^{6,15}	0.722.39 ^{6,15}	5 ⁷	
16065-83-1	Chromium (III)	1,805,611.70 ^{6,15}	86268.22 ^{6,15}	100(total) ⁷	
18540-29-9	Chromium (VI)	16	11	100(total) ⁷	
7440-50-8	Copper	14,051.68 ^{6,15,16}	9,330.50 ^{6,15,16}	1000	
7782-41-4	Fluoride			4,000 ⁷	
7439-92-1	Lead	81.82476.82 ⁶	3.2.18.58 ⁶	15 ⁷	
7439-97-6	Mercury	1.7	0.012.0.88	0.050	0.051
7440-02-0	Nickel	4701.516.92 ^{6,15}	52168.54 ^{6,15}	100 ⁷	4,200
7782-49-2	Selenium	20	5	50 ⁷	
7440-22-4	Silver	3.841.07 ^{6,15}			
7440-28-0	Thallium			0.24	0.47
7440-61-1	Uranium			30 ⁷	
7440-66-6	Zinc	120387.83 ^{6,15}	120387.82 ^{6,15}	7,400	26,000

From: Fleisig, Erica <Fleisig.Erica@epa.gov>

Sent: Tuesday, October 20, 2020 7:38 AM

To: Sengco, Mario <Sengco.Mario@epa.gov>; Wirick, Holiday <wirick.holiday@epa.gov>

Subject: RE: Sengco, Mario shared "Notes for SHPD-R8 Monthly_10_21_20" with you.

Good morning Holly! You sure get online early 😊

I was just in this paper with you, and I noticed this bullet for ND: Proposed revisions include updating ammonia criteria and adding selenium fish flesh criteria

Can you please confirm if they are adopting the 2016 selenium criteria in their entirety (fish plus water elements) or if they are proposing to leave an existing water column element in place (presumably a 5 ug/L?) and add the fish tissue elements on top of the existing water element? We recently had discussions around the latter happening in Mississippi, and concluded that we couldn't support that approach, so I just wanted to be sure what ND is doing.

Thank you!

-Erica

From: Sengco, Mario <Sengco.Mario@epa.gov>

Sent: Tuesday, October 20, 2020 7:29 AM

To: Fish, Tonya <Fish.Tonya@epa.gov>; Moon, Dave <Moon.Dave@epa.gov>; Parrish, George <Parrish.George@epa.gov>; Laidlaw, Tina <Laidlaw.Tina@epa.gov>; Wirick, Holiday <wirick.holiday@epa.gov>; Pierce, Maggie <Pierce.Maggie@epa.gov>; Fleisig, Erica <Fleisig.Erica@epa.gov>; Anderson, Danielle

<Anderson.Danielle@epa.gov>

Subject: Sengco, Mario shared "Notes for SHPD-R8 Monthly_10_21_20" with you.

The next check-in for Sara and Judy is tomorrow at 4 pm ET. Here are some updates for them. As always please add any issues for elevation that I may have missed. Thanks.



This link only works for the direct recipients of this message.



Notes for SHPD-R8 Monthly_10_21_20

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